

2011 PST Syllabus
U.S. Department of Energy Office of Science - Pre Service Teacher Program(PST)
Brookhaven National Laboratory (BNL)

February 01	Student Applications made available to BNL staff	
May 13	Application Deadline	
May 19	All PST students receive pre-appointment information from the Office of Educational Programs (OEP) pertaining to: <ul style="list-style-type: none"> • Start date and end date • Project description and mentor information • Housing information • Travel information • Deliverables required by student participants • Orientation information (when and where) 	
May 19	Mentor Orientation – Syllabus and successful mentoring techniques are discussed.	
Sunday, June 05	Anytime Anytime 5:00 pm – 7:00 pm	Non- Local students Arrival Dormitory Check-in Welcome Dinner with OEP staff at Bldg. 400
June 06 – 10 (Week 1)		
Monday, June 06	8:00 am – 9:15 am 9:15 am -12:15 pm	All students arrive and check-in at Berkner Hall (Bldg 488) Orientation <ul style="list-style-type: none"> • BNL overview • BNL policies • <u>GROUP PHOTO</u> • Environmental safety and health training information • BNL Pre-participation survey • Enrichment component overview • Research paper and poster presentation guidelines • Discussion of student and mentor roles <ul style="list-style-type: none"> • Emergency services information (Industrial Medicine Clinic, Employee Assistance Program, firehouse, police) • Additional student resources (e.g. www, e-mail; transportation: on-site shuttle, bicycles, weekday Long Island RR connection; recreation; Toastmasters)
	12:30 pm-1:30 pm 2:00 pm – 3:30 pm	Lunch with Mentors at Brookhaven Center (Bldg 30) Only Biology interns report to Bldg 463 Seminar Rm. for a Dept. Orientation Physics interns report to Physics – Bldg 510, Orange Rm. For a Dept. Orientation
	2:00 pm - 5:00 pm 5:00 pm – 8:00 pm	Rad Worker 1 – Pt II (Bldg 438 Auditorium) or Department Check-in Transportation provided for shopping at local grocery center for students who need supplies
Tuesday, June 07	9:30 am – 10:15 am 10:30 am – 3:00 pm 3:00 pm – 5:00 pm	Tour of Research Library Students report to assigned departments Students meet Master Teacher and take additional safety training as required and complete pre-survey through EduLink at Bldg 438. Enrichment Component begins: <ul style="list-style-type: none"> ▪ What makes a good lesson plan....Great! ▪ Introduction to “online” lesson plans
Wednesday, June 08	8:30 am – 10:00 am 10:00 am – 5:00 pm	PST & CCI interns Tour Session I. Meet bus at Berkner Hall – Bldg 488 Students report to assigned departments
Thursday, June 09	8:30 am – 5:00pm	Students report to assigned departments

Friday, June 10	8:30 am – 12:00 pm 1:00 pm - 5:00 pm	Students report to assigned departments Classroom Enrichment Activities: Students will search and locate different websites that have model lesson plans using various search engines and compile a “list of favorite sites” on Microsoft word
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June 13-17 (Week 2)

- **Students work in their laboratories Monday through Friday**
- **Complete feedback form**

Tues. 5:00-7:00PM “*Take Out Dinner*” Enrichment Component continues

- **Introduction to Power Point Presentations**
- **Safety in the science classroom**

Friday 1:00-5:00PM Classroom Enrichment Activities

- **Sharing of student experiences**
- **Discussions regarding research assignments**
- **Teach a model lesson**
- **Friday lunch seminar**

June 20-June 24 (Week 3)

- **Students work in their laboratories Monday through Wednesday**
- **Complete feedback form**

Tues. 5:00-7:00PM “*Take Out Dinner*” Enrichment Component continues

- **“Discovery learning” vs. “Lecture teaching”**
- **Mind Mapping**
- **Student guided tours of each other’s labs**

June 27-July 01 (Week 4)

Tues 5:00-7:00pm “*Take Out Dinner*” Enrichment Component continues

- **Students work in their laboratories Mon. Through Fri.**
- **Complete feedback form**
- **Draft abstract Due (for interns writing a research paper)**
- **Abstracts – first draft due**

July 04-July 08 (Week 5) Monday, July 04 and Tuesday, July 05 Holiday Lab Closed

Tues 5:00-7:00PM “*Take Out Dinner*” Enrichment Component continues

- **Begin writing Education Module**
- **Ethics in science**
- **Discussion of “What Makes a Good Teacher**

Friday 1:00-5:00PM Classroom Enrichment Activities

- **1ST DRAFT DUE**
- **Discussions regarding research assignments**
- **Sharing educational modules**
- **Discuss National Standards**
- **New York State standards**
- **Core curriculum**
- **Friday Lunch Seminar**

July 11-15 (Week 6)

- **Students work in their laboratories Monday through Friday**

Tues 5:00-7:00PM “*Take Out Dinner*” Enrichment Component continues

- **“Deliverables” question and answer session**

- **Introduction to making a Science Education Poster**

Fri 12:00 – 5:00PM Classroom Enrichment Activities

- **Discussions regarding research assignments**
- **Power Point workshop**
- **Discussion of Rubrics/Evaluation**
- **Alternative Assessments**
- **Friday Lunch Seminar**

July 18 - 22 (Week 7)

Students work in their laboratories Monday through Friday

- **ABSTRACT: DEPARTMENTAL DRAFT DUE**
- **Complete feedback form**

Tues 5:00-7:00PM “*Take Out Dinner*” Enrichment Component continues

- **“Deliverables” question and answer session**
- **Critical Thinking**
- **Multiple Intelligences: Application In The Classroom**

Fri. 1:00-5:00PM Classroom Enrichment Activities

- **Student’s work on the Educational Modules**
- **Tour - TBA**
- **Friday Lunch Seminar**

July 25-July 29(Week 8)

- **Students work in their laboratories Monday through Friday**
- **Complete feedback form**

Tues 5:00-7:00PM “*Take Out Dinner*” Enrichment Component continues

- **Motivational techniques**
- **Portfolios in the classroom**

Fri. 1:00-5:00PM Classroom Enrichment Activities

- **Begin Work On Abstract**
- **Continue work on Educational Modules**
- **Work on Research Papers**
- **Friday Lunch Seminars**

Aug 01 – Aug 05 (Week 9)

- **Students work in their laboratories Monday through Friday**
- **Complete feedback form**

Tues. 8:00 AM-7:00PM

ABSTRACT: FINAL DRAFT DUE
Poster printing begins

Tues. 5:00-7:00PM

“Take Out Dinner” Enrichment Component continues
Finish working on all required deliverables

Fri. 1:00 – 5:00 Classroom Enrichment Activities

- **Students Work on Posters**
- **Students Work on Educational Modules**
- **Abstract Review**
- **Friday Lunch Seminar**

August 08 – 12 (Week 10)

- Students work in their laboratories and on their presentations all week.

FINAL ABSTRACT DUE

Tues., August 09	5:00 - 7:00 pm	<i>“Take Out Dinner”</i> Enrichment Component continues <ul style="list-style-type: none">▪ Finish working on all required deliverables▪ Last Day to Print Posters
Wednesday, August 10	9:00 am -10:00 am 11:00 am -1:30 pm 2:00 pm - 4:00 pm	Graduate School Panel Session Poster Presentation-dry run Graduate School Fair
Thursday, August 11	8:30 am – 4:00 pm	Symposium, Poster Presentation & Closing Ceremonies

Friday, August 12 Last Day.

Students’ deliverables due:

- Lesson Plan and abstract (hard copy)
- Electronic copies of poster session, technical presentation, and lesson plan
- BNL exit survey
- DOE Post survey through EduLink
- Stipend distribution/ Check out
- Dormitory check-out/ Departure